

GLUT12 Rabbit pAb

Catalog Number: bs-2540R

Target Protein: GLUT12

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Chicken, Dog, GuineaPig, Horse)

Predicted MW: 68 kDa

Subcellular Cell membrane ,Cytoplasm

Locations:

Entrez Gene: 154091

Swiss Prot: Q8TD20

Source: KLH conjugated synthetic peptide derived from human GLUT12: 251-350/617.

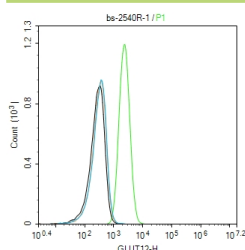
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

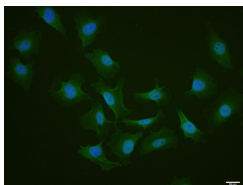
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: GLUT12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion. Thirteen different types of glucose/fructose transport carrier proteins designated as Glut 1-13 facilitate glucose/fructose transport across the cell membrane. Individual members of the Glut family have predicted secondary structure characteristic of 12 membrane spanning domains of other transport carriers.

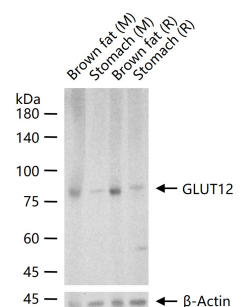
VALIDATION IMAGES



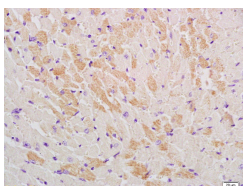
The MCF-7(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-GLUT12 antibody (bs-2540R): 1 µg/10⁶ cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF647 (bs-40295G-BF647): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.



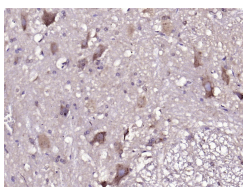
A-549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GLUT12) polyclonal Antibody, Unconjugated (bs-2540R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



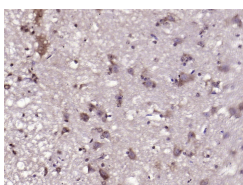
25 ug total protein per lane of various lysates (see on figure) probed with GLUT12 polyclonal antibody, unconjugated (bs-2540R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Glut12 Polyclonal Antibody, Unconjugated (bs-2540R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLUT12) Polyclonal Antibody, Unconjugated (bs-2540R) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLUT12) Polyclonal Antibody, Unconjugated (bs-2540R) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=11.062] Xiong Ying. et al. SLC2A12 of SLC2 Gene Family in Bird Provides Functional Compensation for the Loss of SLC2A4 Gene in Other Vertebrates. Mol Biol Evol. 2020 Nov;; WB,IHC ; Sparrow . 33316072

[IF=4.556] Yoichi Chiba. et al. Glucose, Fructose, and Urate Transporters in the Choroid Plexus Epithelium. Int J Mol Sci. 2020 Jan;21(19):7230 IHC ; Human . 33008107

[IF=4.586] Gil-Iturbe E et al. GLUT12 Expression in Brain of Mouse Models of Alzheimer's Disease. Mol Neurobiol. 2019 Aug 31. WB ; Mouse . 31473905

[IF=4.17] Pujol-Gimenez, Jonai, et al. "Expression of the Glucose Transporter GLUT12 in Alzheimers Disease Patients." Journal of Alzheimers Disease (2014). WB ; Human&Rat . 24820014

[IF=3.7] Mingmei Li. et al. Hypoxia promotes the growth and metastasis of ovarian cancer cells by suppressing ferroptosis via upregulating SLC2A12. EXP CELL RES. 2023 Nov;;113851 IHC ; Human . 37940066